

REGISTRATION FORM
**“SYSTEMS APPROACH TO STREAM INVESTIGATION,
ANALYSIS, AND DESIGN WORKSHOP”**

This free workshop is sponsored by the U.S. Army Corps of Engineers Water Operations Technical Support (WOTS) Program,
(<http://www.wes.army.mil/el/wots/wots.html>).

TIME: September 13, (starts at 8:00 am) until September 16, 2005 (ends at noon).

PLACE: Conference Room, Country Inns & Suites, 255 S.W. Frontage Road.
Grenada, MS 38901. Phone 662-227-8444. Grenada MS (exit 206 from Interstate 55, the hotel is visible from the Interstate) is located approximately 100 miles south of the Memphis Airport and 115 miles north of the Jackson, MS airport

This workshop is limited to the first 45 people who register. Combining over 75 years of experience, the instructors will be Dr. David Biedenharn and Mr. Dave Derrick, from the Engineer Research and Development Center, Vicksburg, MS, and Dr. Chester Watson of Colorado State University. The objectives of this workshop are to introduce the methodology and procedures for initiating, planning, analyzing, and ultimately designing long-term sustainable channel projects using a systems approach that considers the entire watershed. Several comprehensive case studies will be presented along with a workshop introducing the newly developed Sediment Impact Assessment Model (SIAM). See enclosed draft agenda for details. Two morning field trips to local stream sites will be conducted (transportation provided). In August Mississippi will be hot. Rain gear, appropriate field clothes, and boots are recommended for the field trips.

In early August, registered participants will be e-mailed instructions on how to download all class notes from a dedicated FTP site. Participants can then either bring a notebook computer to class to view the class notes during the lectures (electricity for computers will be provided), or participants can print out the class notes and bring those to class.

Please make your own reservations at the Country Inns and Suites, rooms will be held at the govt. rate until Aug 13th

I would like to register for this workshop:

NAME: _____

E-MAIL: _____

AGENCY: _____

ADDRESS: _____

PHONE: _____ FAX: _____

Please return this form to David Biedenharn at biedend1@wes.army.mil, fax @601-634-4158. Questions will be fielded by Dr. Biedenharn at 601-634-4653.

COURSE AGENDA

TUESDAY – September 13, 2005

Tab 1. Introduction and Overview of Workshop (8:00-8:15)

Instructor – David Biedenharn

Tab 2. Problems & Impacts (8:15-8:45) - most changes to a stream or watershed, regardless of the intent, have positive and negative impacts.

Instructor – David Biedenharn

- a. Problems and Solutions
- b. Need for Systems Approach
- c. Restoration versus Rehabilitation

Tab 3. The Channel Design Process (8:45-9:15)

Instructor – Chester Watson

- a. Identify Problems & Opportunities
- b. Inventory And Forecast Conditions
- c. Planning
- d. Preliminary Design
- e. Implementation
- f. Monitoring & Feedback

BREAK (9:15-9:30)

Tab 4. Channel Processes and Geomorphic Assessment (9:30-12:00)

Instructor – David Biedenharn

- a. Channel Stability Processes
- b. Channel Evolution Model (CEM)
- c. Geomorphic Assessments

LUNCH (12:00-1:00)

Tab 5. Selection and Design of Channel Rehabilitation Methods (1:00-5:00)

- a. Application of Dimensionless Stability Diagram and CEM
- Instructor – Chester Watson

- b.** Philosophy of Streambank Stabilization
Instructor – Dave Derrick
- c.** Grade Control Structures
Instructor – David Biedenharn
- d.** Flow Control
Instructor – Chester Watson
- e.** Riparian Corridor and Land Treatment
Instructor – Dave Derrick

WEDNESDAY SEPTEMBER 14, 2005

Tab 6. Field investigation: Bellfontaine Creek to observe channel evolution processes (8:00-12:00)

- a.** Field Equipment and Safety
Instructor – Dave Derrick
- b.** Field site visits
Instructors – All

LUNCH (12:00-1:00)

Tab 7. Plan Evaluation and Preliminary Design (1:00-4:30)

- a.** Determination of Stable Channel Dimensions (width, depth, and slope)
Instructor – Chester Watson
- b.** Determination of Planform Properties (sinuosity, meander wavelength, amplitude, radius of curvature)
Instructor – Chester Watson
- c.** Sediment Impact Assessment (Introduce Sediment Impact Assessment Model - SIAM)
Instructor – David Biedenharn

Tab 8. Plan Selection, Implementation, and Monitoring (4:30-5:00)

Instructor – Chester Watson

THURSDAY SEPTEMBER 15, 2005

Tab 9. Case Studies (8:00-12:00)

- a. Hickahala Creek Watershed – A regional sediment management application. Instructor – David Biedenharn
- b. Judy's Branch – an ecological restoration application. Instructor – Chester Watson

Lunch (12:00 – 1:00)

10. Sediment Impact Assessment Workshop (SIAM) (1:00 –5:00)

Instructors - All

FRIDAY SEPTEMBER 16, 2005

11. Field Investigations to Batupan Bogue at Elliott, Tie Plant, and Subdivision Cul-de-sac (8:00-10:00)

Instructors – All

12. Case Studies (10:00-11:30)

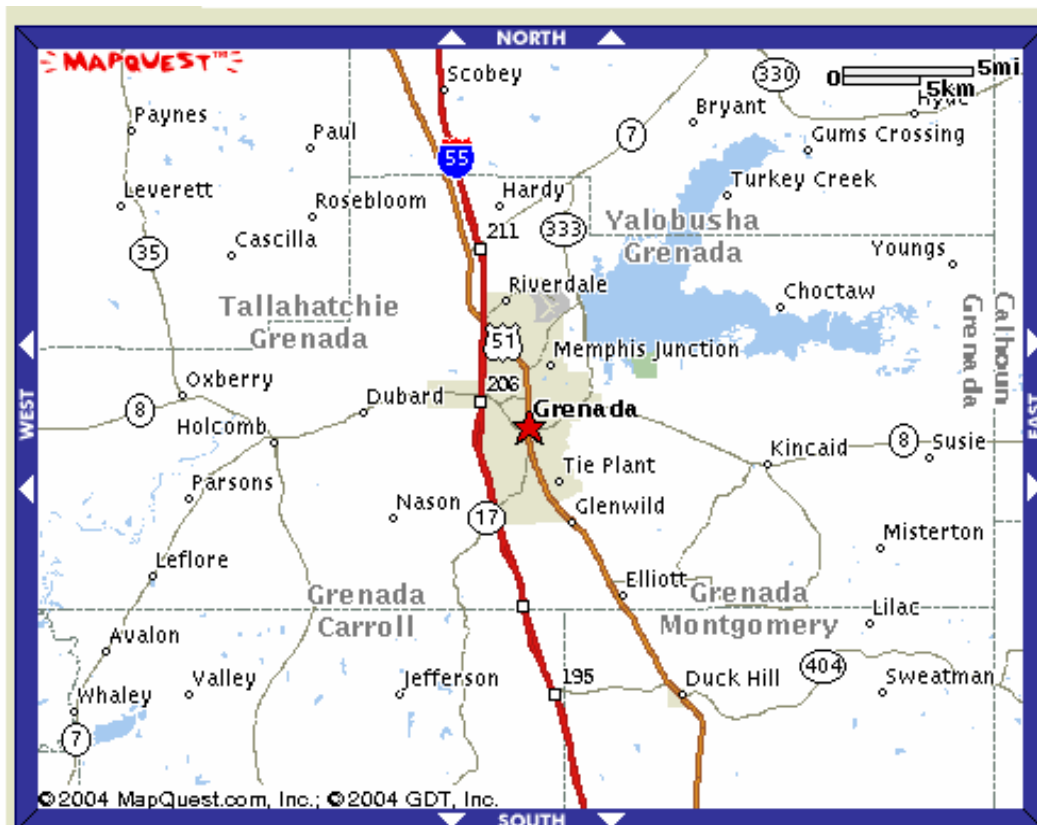
- c. Bank Stabilization Applications – The Western New York River Restoration Revolution -3 Case Studies, 84 methods and techniques, Instructor – Dave Derrick
- d. Nutrient and Sediment Reduction Effects of Channel Stabilization Measures
Instructor – Chester Watson

13. Class Discussion (11:30-12:00)

END OF WORKSHOP



Maps to Grenada, MS



Grenada Mississippi



A Cozy Stay At A
Comfortable Price®



Countryline® Reservations:
800-456-4000
Toll-free in the U.S. and Canada • Chain code: CX
Commissions Paid Promptly

255 S.W. Frontage Rd.
Grenada, MS 38901
662.227.8444



For some it's the cozy accommodations, complimentary breakfast and great rates. For others it's the little things we do . . . a warm smile and friendly hello, followed by a call to make sure you're comfortable. You'll feel the country charm throughout . . . a fireplace, hardwood floors and the personal touches of home. Our staff will welcome you and go out of their way to make sure your visit to Country Inn & Suites By Carlson,® Grenada is most memorable.



When you stay with us, you'll appreciate the extras like:

- ◆ Complimentary breakfast including bagels, an assortment of breads, muffins, hot & cold cereals, fresh fruit, juices, coffee, tea, milk & cocoa available daily
- ◆ In-room coffee maker with complimentary coffee
- ◆ Free local telephone calls and long distance access
- ◆ Iron, ironing board & hair dryer in every room
- ◆ Complimentary Weekdays USA Today newspaper

Discover the Country® . . .
it's a lot like home.



Country Inn & Suites by Carlson®
255 S.W. Frontage Rd.
Grenada, MS. 38901
Phone: 662.227.8444
Email: shri_llc@hotmail.com
Fax: 662.229.0392

Hotel Brochure

